BRYAN, January 2,

Sin:-I have the honor herewith to

Sir:—I have the honor herewith to transmit the report of the president of the A. & M. College of Texas.

By this report it will be seen that the college might have been filled with students who would pay for their boarding, fuel, light, etc., but for the fact that the legislature has required preference to be given state students, to the number of 93, who pay nothing to the college.

to the college.

The college can furnish rooms and instruction to all its students free because the state has erected the buildings and the United States furnished the means of paying the salaries of professors. But it has no means of furnishing boarding, fuel and lights to any one, without compensation.
The question as to whether the state shall make an appropriation to pay these expenses of state students is admitted into the cellege. It is hoped that your excellency will see the importance of recommending to the legislature a speedy indication of its future policy upon the subject, as the state students are now in the college without any provision for their ex-

The salary of \$1,500 a year allowed the professors contemplates the addition of the use of a residence for each of them. There are however two of the professors now without any place of residence. This is a great inconven-ience to them. It is believed that the state should provide means to place professors by supplying them each with a comfortable dwelling house.

Respectfully submitted. J. D. THOMAS, President Board of Directors.

PRESIDENT'S OFFICE, A. AND M. COLLEGE OF TEXAS,

OBJECT OF ITS FOUNDATION. Wisely recognizing the intimate ity of the coilege, connection between industrial pursuits and national and state development, the laws, Federal and state, by which this college was created and endowed, contemplated for its object "The practical and liberal education of the industrial classes," and the consequent development of our material resources. The Federal Act of July 2, 1862, expressly provides that all revenue received from the land grant therein made "shall be inviolably appropriated by each state which may take and claim the benefit of this act, to the endowment, support and maintenance of at least one college where the leading object shall be, without excluding other scientific and classical studies, and including military tactics. to teach such branches of learning as are related to agriculture and the mechanic arts, in such manner as the legislatures of the states may respectively prescribe." Texas formally accepted the gift with its conditions, and by its constitution of 1876, made this college which had already been established by act of legislature April, 17, 1871) "a branch of the University of Texas, for instruction in agriculture, the mechanic erts, and the natural sciences connected

intended to be benefited.

dollars have flowed into the state and been permanently invested in rail-ways, cattle, sheep, lands many flower present outfit in this description. not require each year for itself alone may help to meet their wants, and to if possible, of many scientific problems connected with the advance of agriculture and the mechanicarts, and which require patient and labarious experiments, for which business men have not the time.

For these reasons the college de- es, teaching shall be thrown in favor of the producing and not the consuming class of our population; which shall breed, by wise management, in its educational atmosphere, farmers, horticul-

ble to the state, by remitting to the university and the distinctively liter-ary colleges all the work and instruction preparatory for learned professions. A economical co-ordination learned professions. A wise economical co-ordination of the parts of our higher educational ma-chinery will doubtless follow the opening of our state university, of which this is an integral part, so that no department need duplicate the

work of another. It will be as impossible then, for a student to enter here and receive special and profitable preparation for one of the so-called learned profes-sions, as it will be for a student to fit himself for the profession of mechan-ical engineering in an established law school. The industries are to-day far more profitable and certain than the learned professions; our people throughout the South are recognizing that fact, and the demand for that practical education which teaches things and industrial and business processes, rather than merely books and theories is rapidly modifying the courses of instruction of the old whether there shall be state students demitted into the cellege. It is hoped of our population are under the neces-sity of requiring for their children an ducation which does not turn them out as college graduates, helpless, dependent and untrained in any means of making a livelihood, with even the rudiments of their future avocation to learn. And it is this demand which is shaping and developing the techni-cal schools which are multiplying all over the land, and which must inevitably, as with the great powers of them on an equality with the other schools, especially in the great centres of population.

her of matriculates to date is 200; the higher classes are rendered familiar court. average attendance about 185. There with the construction and use of the could have been a great many more steam engine, which is now run and students matriculated had there been managed continually by them alone, Sir—I have the bonor to submit the following report of the condition of this branch of the state university, with a brief statement of its objects and methods: consideration of your excellency and the legislature. Two hundred stucents is the present limit of the capac-

Of the students admitted 120 have been pay, and 80 state students. For the past two years so popular has the college been that it could readily have been filled with pay students only.

ACADEMIC DEPARTMENT. The theoretical instruction (by text ooks and lectures) is embraced in the following departments, each in charge of a separate professor, viz: English Language, History and Literatue; Physics and Chemistry; Ancient and Modern Languages; Agriculture and Horticulture; Mathematics; Mechan-les, Engineering and Drawing. The president gives instructions in Book-

AGRICULTURAL DEPARTMENT, Forty-one students have entered this

pay, the rest state. This department The present course of studies and du- cannot possibly be made either very ties are arranged carefully in con- useful or attractive to students unless formity with these requirements, em- it be filled up in a manner worthy of bracing besides the theory and prac- this great state and its greatest industice of the leading features prescribed try. In no science or industry is ob-by law, a liberal and thorough educa-ject teaching more essential than in tion in the English branches, mathematics the natural sciences, history, literature, etc.—and the cost has been kept within the means of the classes any results of value as an agricultural college until students can here have The marvelous growth of our state daily before their eyes the latest and in population and wealth in the past best tools, implements, machines, and five years, the unparalleled expansion all the materials necessary for imof its railway system and great indus- proved agriculture, horticulture and tries, and the natural resulting com- stock-breeding. Here should be mercial activity in various forms—all | displayed, as fast as invented, every unite to give value and importance to the educational experiment here, which is seeking to contribute skilled workers and intelligent directors to aid in sustaining and carrying torward for the stock, and a knowledge of the contribute of the stock, and a knowledge of the contribute of the stock, and a knowledge of the contribute of the stock and a knowledge of the contribute of the stock and a knowledge of the contribute of the stock and a knowledge of the contribute of the stock and a knowledge of the contribute of the stock and a knowledge of the contribute of the stock and a knowledge of the contribute of the stock and a knowledge of the contribute of the stock and a knowledge of the contribute of the stock and a knowledge of the contribute of the stock and a knowledge of the contribute of the grand work of developing our natural resources. In the period above mentioned one hundred millions of purest strains of cattle, sheep, hogs,

ways, cattle, sheep, lands, manufactures and other productive property, and there is not a single one of those lines of industrial activity which does cow, hog, sheep or horse. Indeed, not more young men of sound, practical, enough money has ever been given to business education than this school fence properly sufficient land for small fence properly sufficient land for small can turn out. The proper sphere of usefulness of this college, therefore, will consist in so closely adapting itself to the leading industries of the state, that its work here house, museum, green house, museum, green house, museum, green propagating advance their interests not only by been supplied for agriculture the general diffusion of practical technology and horticulture, and no she is or passical knowledge, but by the solution, tures for animals, should they be house: tures for animals, should they be bought or given for the benefit of the department. The true agricultural colleges on this continent have been abundantly provided with everything necessary to advance a knowledge of improved agriculture in all its branchand it would seem just to the serves the festering care of the state great farmer class of this state, that and her citizens. There should be at the means should be provided here. least one college in the state, the Inblooded stock alone the Agricult-weight of whose whole influence and ural College of Ontario, Canada, has In blooded stock alone the Agricult-\$20,000,00 invested, and besides being a most instructive and attractive feature, it pays annually by sale of sur- maintenance and instruction here as plus stock bred on the college form, a the expense of the state, but there are very handsome profit on the investturists, stock-raisers, machinists, man-inent. Farmers go up from all over tendance. They have as a rule made unacturers, engineers, and other increasers of actual wealth, rather than at the college, to bid for its thoroughs nities, and provadd to the overburdened ranks of the bred animals. Surely this, the great-state's bounty. learned professions, and other non- est stock-raising size on the conti-producing classes. each other non- est stock-raising size on the conti-nent, can afford to show at its college.

The head of this department, Pro-fessor C. C. Georgeson, submits the following estimate for improvements:

office 1.20
For a small green house and plants 1.20
To salary for a gardener—annually 60

MECHANICAL DEPARTMENT.

screw-cutting speed lathe, engine lathe, mounted grind-stone, fifty feet shafting, twelve horse-power engine with reversing link and indicator attachments; tool room, in which are kept a complete set of wood-working tools and supplies, and special tools for metal working, as taps, drills, dies, reamers and small shop supplies. A mith shop for dressing tools has been itably, as with the great powers of Europe, at no distant day greatly modify the present thoroughly unpractical course of instruction of our common schools, especially in the great centres penters' benches tools and for the instruction of the entrance class in carpentry and jointry, before The session opened October 2, they are admitted to the machinery department. All students in the pairing in metals and wood needed at the college, which are of simple character, and not too extensive; make their own drawing boards, rules, book-eases, hat-racks, and other articles of room outfit.

This department is very popular, and constantly excites the interest of those engaged in it. The machinery could be increased with great profit, as we have never been supplied with some of the most important elementary machinery.

LABORATORY OF PHYSICS AND CHEM-ISTRY.

culture, the mechanic arts, and their civil engineering is suffering badly related industries, are the branches of for increased number of instruments keeping, and lectures on Laws and efforts are made to give them promi- the constant addition of new scien-The progress of classes this year has been very satisfactory to the faculty, and the students have both in studies and conduct fully met their expectations. The detailed consistence of instruction of the faculty and the students have both in studies and conduct fully met their expectations. The detailed consistence of instruction in the course of instruction in

citizen without chemical knowledge satisfied if the colege is to do well and profitably the great work which is exities for material development now

specify dormant resources now yield- is a small sum to contribute for this ing nothing to our state which might easily be made by competent chemists place within the means of the great to produce millions of dollars annually. mass of our population the advantage Shall our Texas youth be fitted to gather this wealth, or shall they be more laborers with the hands for strangers who must erelong be attracted by that which cannot be attracted by that which cannot be attracted. Your obedient servant, tracted by that which cannot be apparent to our own young men if they be denied the training necessary to enable them to profit by their oppor-

Our laboratories now own about \$2,500 worth of useful apparatus. We have no room at all suitable for students work, without which chemical study amounts to little. The small room in which as many as ten students have worked at qualitative analysis at one time has no ventilation, no water taps, no gas, no sinks, no desks and no closets for each student. If a building be furnished it can be properly fitted for the thorough justruction of thirty or forty students (probably as many as we need to provide for) for between \$5,000 or \$6,000. For a larger number the additional cost would be from \$50 to \$75 per student. If buildings now here could be altered and adapted, the cost on that account would probably not exceed \$1,000. If a special building be erected (which should by all means be done) the cost should not be less than \$12,000. Water might be supplied from large eisterns, and head given for the use of aspirators, etc., by raising it with a small steam pump. estimate the total amount needed by our laboratories, including building, at \$18,000; exclusive of building at \$7,000.

The laboratory buildings of the University of Virginia, among the cheapest and best in the United States, cost, approximately, \$12,500, the apparatus and collections about \$17,000. I may add that the above figures are reliable since they are based upon ex-timates kindly given me by the emi-uent chemist, Dr. J. W. Mallet,"

STATE STUDENTS. Under the law of the last legislature ninety-three students are entitled to only eighty of that class now in atnities, and proven to be worthy of the

Of the appropriations of \$7,500 for the year ending February 28, 1883, The work has been wisely begun, for the benefit of the sons of her farm- there remained an expended at the experiment so far successful, stuers and other citizens, specimens of all close of last session \$3,258.08, against ORDER AND LETTER (TRIPLIdents are rapidly appreciating the value of practical education, and turning their energies into channels of in-The object of this course of study is dustrial activity, and it only remains for the state to develop year by year, by liberal feasistive appropriations the scientific and practical features which require heavy outlay for apparatus, machinery and materials, to make the school, in practical results, the most valuable of all its educational agencies. If that be done, the college can become a purely professic behool for the great industries of life and become a purely professic behool for the great industries of life and less work rendered infinitely more valuations.

seen by a simple calculation that only \$8.96 per month was allowed for board, fuel, washing, lights, quarters and instruction of each student, and heace the deficiency. If state stu-dents are to be continued at this college, the appropriation for their sup-port should be made for \$13.334 per month per student, as they cannot possibly be maintained here for less.

COLLEGE LAND SUIT. A portion of the college land is in The matriculates in this department number 159, of whom 115 are pay and forty-four state students. The outfit, and in consequence, the results are other. The said tract consists of 102 and in consequence, the results are much more satisfactory than in the agricultural department. For practical work a two-story framed building 84x34 has been turned into shops. On the ground floor the shop equipment consists of nine sets student's wood-working tools—fret-saw, jig-saw, iron table circular-saw, large wood lathe and two On the metal side of the Dantice of the state, and subsequently at their ixstance the firm of Ford & Ford was employed, and they intervened for the college. At the trial of the case during the fall term of 1882, the plaintiff prevailed, and a recovery of the land was had for the state with the judgment conditioned for the payment

judgment conditioned for the payment by the state to the defendant, Peter Winter of \$500, for his improvements, before he could be dispossessed. The defendants have appealed said case to the supreme court, where it is now pending. Your Excellency is re-spectfully requested to recommend a legislative appropriation of \$500 as required by the judgment, to pay Peter Winter for his valuable improvements on said land, and also one of \$500, or as much thereof as may be necessary pay attorneys fees, and costs of

PRESSING WANTS OF THE COLLEGE. For the most pressing wants for quarters and equipment, for the extension of the college and its legitimate work not less than fifty thousand dol-lars will be needed. Agricultural, horticultural and stock-breeding cannot be taught from books alone, or illustrated in the lecture room. A large well fenced, well-stocked farm is a prime necessity, with that abundance of tools, teams, machinery etc., neces-sary for practical instruction of large classes. For the mechanical students we need large shops and a greater number of tools, machines and appliances. For the

practical study of the sciences, chemistry, physics, botany, geology, mineralogy, we need a spacious laboratory to itself, with its various departments thoroughly provided with most approved and latest instruments of physical research, models, specimens, So intimately connected with agri- chemicals, etc. The department of chemistry and physics, that all proper for field work. The library needs nence in the course of instruction of life works as they appear, and the and the students have both in studies and conduct fully met their expectations. The detailed courses of instruction will be found in the accompanying entalogue, copies of which will also be turnished members of the new also be turnished members. "A chemist and even an intelligent the most urgent needs, which must be pected of it by our people-which ought to be done by it as affactor in the Were this the proper place I could state's progress. Fifty thousand dollars purpose, especially when it is done to place within the means of the great of a collegiate education on a practi-cal, scientific basis. I remain, with

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ratory for the whole state, and the state should not hesitate in granting liberally of her means for this useful purpose. The students throughout the session take part in all the farm operation and the state should not hesitate in granting legislature to cover by an appropriation. As the legislature ordered 93 students to be received, and appropriated only \$7,500 for each scholastic year of nine months, it will be readily

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